



STIC Search Report

EIC 3700

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**TO: Patricia Martin
Location: RND 8a40
Art Unit: 3700
Friday, May 27, 2005**

Case Serial Number: 09/925887

**From: Terry Solomon
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RND 8b31
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Search Notes

No current or past litigation found involving US pat. 5931011.

Sources:

Lexis/Nexis
Questel-Orbit

102635 (09) 5931011 August 3, 1999

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Research Information:

Utility, Design and Plant Patents
patno=5931011

UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT

5931011

August 3, 1999

Low temperature storage cabinet

REISSUE: August 3, 2001 - Reissue Application filed Ex. Gp.: 3744; Re. S.N. 09/925,887 (O.G. January 13, 2004)

APPL-NO: 102635 (09)

FILED-DATE: June 23, 1998

GRANTED-DATE: August 3, 1999

ASSIGNEE-AT-ISSUE: Hoshizaki Denki Kabushiki Kaisha, Toyoake, Japan (JP), 03

ASSIGNEE-AFTER-ISSUE: September 17, 1998 - ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS) ., HOSHIZAKI DENKI KABUSHIKI KAISHA SAKAE-MACHI, TOYOAKE-SHI 3-16, MINAMIYAKATA, AICHI-KEN JAPAN, Reel and Frame Number: 09469/0082

LEGAL-REP: Nikaido, Marmelstein, Murray & Oram LLP

Selected file: PLUSPAT
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**** SS 1: Results 1**
PRT SS 1 MAX 1 LEGALALL

1 / 1 PLUSPAT - @QUESTEL-ORBIT - image
Patent Number :
US5931011 A 19990803 [US5931011]
Title :
(A) Low temperature storage cabinet
Patent Assignee :
(A) HOSHIZAKI ELECTRIC CO LTD (JP)
Patent Assignee :
Hoshizaki Denki Kabushiki Kaisha, Toyooka [JP]
Inventor(s) :
(A) SHIMA TSUYOSHI (JP); SUYAMA TOMIO (JP)
Application Nbr :
US10263598 19980623 [1998US-0102635]
Priority Details :
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F25D-017/06A
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G05D-023/19C6
US Patent Class :
ORIGINAL (O) : 062182000; CROSS-REFERENCE (X) : 062157000 062186000
062228100 165269000
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US3733841; US4467617; US4481787; US4485633; US5255530; US5490394;
US5782101; JP62-29909
Publication Stage :
(A) United States patent

Abstract :

A low temperature storage cabinet having a freezing cycle system composed of a compressor, a condenser, a throttle and an evaporator, a cabinet temperature sensor for detecting an inside temperature of the cabinet, and an electric fan provided in the cabinet for circulating cooled air in the interior of the cabinet, wherein the compressor in the freezing cycle system is activated in response to rise of the inside temperature of the cabinet and deactivated in response to a fall in the inside temperature of the cabinet, and wherein the rate of operation of the electric fan is decreased in accordance with a decrease of temperature or pressure of refrigerant in the freezing cycle system during deactivation of the compressor to thereby reduce consumption of the electric power.

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